

IN THE CLAIMS:

1-38 (Cancelled)

39. (New) A hand-held medical apparatus for medical self-treatment wherein the self-treatment comprises a plurality of process steps, the apparatus comprising:

a) a basis module having a processor and a power supply, the basis module being both physically and electronically interfaceable with each other ;

b) a first replaceable module for performing a first medical self-treatment step, the first replaceable module being inoperable until it is electronically and mechanically interfaced with the basis module;

b) a second replaceable module for performing a second medical self-treatment step, the second replaceable module being inoperable until it is electronically and mechanically interfaced with the basis module; wherein the first and second replaceable modules are selected from the group consisting of:

a motor driven injection device for injecting a discrete dose of medication;

a blood glucose monitor;

a continuous blood glucose monitor;

a means for allowing communication with a data communications network;

a wireless means for communication with other devices;

a replaceable module containing fixed wire interfaces for communication with one or more of a personal computer, a camera, a TV-monitor, an acoustic device, a telephone, a mobile telephone;

a replaceable module containing the functionality of a mobile telephone;

a replaceable module containing a loudspeaker;

a replaceable module containing a microphone, a loudspeaker and a processor and software for speech recognition for providing a voice interface;

a replaceable module containing means for monitoring the temperature of the medication cartridge and its contents;

a replaceable module containing means for monitoring and controlling the temperature of the medication cartridge and its contents;

a replaceable module containing means for providing a selectable acoustic or vibratory or optical signal after a certain settable time or on the occurrence of a certain event;

a replaceable module containing means for vibrating the contents of the medication cartridge, and means for providing an alarm signal indicating the elapsing of a settable time to ensure a proper mixing of the constituents of the medication cartridge;

a replaceable module containing means for detecting shaking movements of the medication delivery device and means for providing an alarm signal indicating that a certain amount of shaking movements has been performed to ensure a proper mixing of the constituents of the medication cartridge.

a replaceable module containing software for controlling the medication delivery at settable velocities, controlled time scales, and/or maximum delivered doses, etc.;

a replaceable module containing software for generating a log of certain user defined events monitored by the medication delivery device;

a replaceable module containing software for controlling a user ID;

a replaceable module containing a display adapted for left-handed use;

a replaceable module containing a display adapted for right-handed use;

a replaceable module containing means for delivering a specific dose profile to a user through a catheter by controlling said means for transferring the medication in such a way that a continuous pump mode is provided.

40. (New) A hand-held medical apparatus according to claim 39, wherein the basis module further comprises an input mechanism for allowing the user to input information and a display for displaying information.

41. (New) A hand-held medical apparatus according to claim 39, wherein the processor is configured to perform a plurality of operation but limits access to some of the operations based on user identification.

42. (New) A hand-held medical apparatus for assisting in the medical self-treatment of a user, the apparatus comprising:

a basis module comprising a processor and power source;

a first replaceable module that is mechanically and electronically interfaceable with the basis module;

a second replaceable module that is mechanically and electronically interfaceable with the basis module;

wherein, basis module comprises a user input means, a display means and wherein the processor of the basis module sends commands to the replaceable modules and receives output from the replaceable module and displays that output, and wherein the first and second replaceable modules require processing resources from the basis module in order to assist the user in medical self-treatment .

43. (New) A hand-held medical apparatus according to claim 42, wherein the basis module comprises a medication injection device comprising:

- a. a holder for holding a cartridge of medication, the cartridge being of the type having a moveable piston;
- b. a piston rod for engaging the piston in the cartridge and for driving a dose from the cartridge by moving the piston a predetermined distance;
- c. an electromechanical piston rod drive;

and wherein the processor is configured to control the piston rod drive.

44. (New) A hand-held medical apparatus for assisting in the medical self-treatment of a condition wherein the self-treatment comprises two steps, the apparatus comprising:

- a. a basis module comprising a process for controlling the basis module and for communicating and controlling a replaceable module, the controller controlling the basis module for performing a first step in the treatment process;
- b. a replaceable module that is physically connectable and electronically interfaceable with the basis module, the replaceable module being capable of performing a second

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self-treatment step only when connected with the basis module and when controlled
by the basis module.